**PT. SINKO PRIMA ALLOY**


| | |
|---|---|
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# 1. Safety

notice Please note the following special statements, used throughout this manual, and their significance:

Note: Explanatory information.

Damage: Action may result in damage to the equipment.

CAUTION: Action may result in personal injury.

WARNING: Action may result in fire and explosion.

CAUTION: Consult Instructions for Use.

Production Date

Manufacturing

**Before Installation**

Fault: Please check the Power (Voltage and Frequency), when power on adjust the required Oxygen Flow (LPM) first before setting the pressure $O^2$ before using the machine.

Damage: If the power source is unstable, discontinue use.

**Placement**

 CAUTION: the MOC-G oxygen unit should be placed in a well-ventilated space, there should be no polluted air or smog in the oxygen.

 CAUTION: Do not place items on top of the MOC-G unit.

 CAUTION: Always place the MOC-G unit on a hard surface. Never place the MOC-G unit on a surface, where the MOC-G unit may roll over or fall.

**Fire Warning**

- WARNING: For oxygen to support combustion, keep the MOC-G oxygen unit away from open light or sources of ignition, no smoking or open light.
- WARNING: Keep the MOC-G unit away from flammable and explosive areas
- WARNING: Textiles and other materials, which are not normally flammable, may ignite with high intensity in oxygen-rich air.
- WARNING: Spontaneous and violent ignition may occur if oil, grease or oily substances come into contact with oxygen under pressure. ALWAYS keep this substance away from oxygen MOC-G units.

**Maintenance**

 CAUTION: Before cleaning the dust in the oxygen net of the MOC-G unit, the plug must be unplugged to prevent electric shock.

 CAUTION: Filter cotton and filters are items that need cleaning, among which the main filter cotton must be cleaned every 200 hours, and the second filter must be cleaned every 900 hours.

**Radio Frequency Interference**

Many electronic equipment is affected by Radio Frequency Interference (RFI). When there is strong electromagnetic interference, maybe the LCD will be slightly affected, but the machine is still running. ALWAYS exercise CAUTION regarding the use of portable communications equipment in the area surrounding the equipment.

**Additional Security Warning**

 WARNING : NEVER leave the MOC-G unit unattended while plugged in.

 CAUTION : ALWAYS supervise closely when this product is used near children or those requiring close supervision.

 CAUTION: If there is an oxygen quality problem, do not disassemble it discreetly. Any alarms or other abnormal phenomena have been found, contact the distributor or manufacturer.

 CAUTION: Ensure proper ventilation during operation, or the machine will over-heat.

 CAUTION: It takes ±10 minutes of the MOC-G oxygen unit from heating to reach regular function.

 CAUTION: This machine is for oxygen supply only, and the oxygen concentration will reach 90% when the air outlet reaches its nominal flow.

 CAUTION: If the indicator shows abnormal oxygen, the operator must notify the distributor or manufacturer to support maintenance.

 CAUTION: After fully opening the flow control knob, but the flow meter showing zero, immediately stop the engine and check for problems.

⚠ CAUTION: Do not turn on or off frequently. To restart the machine after turning it off, it takes no less than 5 minutes

⚠ . CAUTION: Immediately turn on the flow meter switch when the power switch is turned on.

**Environmental Protection Requirements**

The materials used in the system will not pose an environmental hazard. The packaging material (filter cotton) of the system is recyclable, and must be collected and disposed of in accordance with the relevant regulations of the country or region where the package of the system or its accessories is opened.

## 2. Product introduction

Oxygen Concentrator adopts the principle of pressure swing adsorption, which can separate oxygen, nitrogen and other gases from the air, at a constant temperature, as soon as the electricity is connected, the oxygen that meets the standard can be separated from the air constantly. The important parts of the generator adopt anti-fatigue and anti-aging design. There is no effect on the percent oxygen in the room while the generator is operating.

## 3. Conditions of Us

1. Temperature : 10℃ - 40℃
2. Relative humidity : 30% - 75%
3. Air pressure : 700 hPa - 1060 hPa
4. No corrosive gas and strong magnetic field around.

## 4. Scope of application:

For medical use

Oxygen Concentrator is connected with the Headboard panel. The connection diagram is shown in Figure 1

*Figure 1* panel

## 5. Specifications

| | | |
|---|---|---|
| Model | MOC-G | |
| Power (VA) | 2100 | |
| Voltage (V , Hz) | AC220 V, 50 Hz | |
| Oxygen Flow (L/Min) | 0-20 LPM (High Pressure) | |
| Oxygen Concentration (%) | 90 % | |
| Outlet Pressure (Mpa) | 0.14-0.40 | |
| Alarm | Power Failure, Power On, Pressure Low & Pressure High, Unit Temperature, Oxygen Purity High & Low. | |
| LCD Display (optional) | Digital Pressure (Accuracy) | 0.001 Mpa |
| | Accumulation Time (range) | 0 – 9999 Hours |
| | Current Time (Accuracy) | 1 Min |
| | Digital Temperature (Accuracy) | 0.1 °C |
| Dimensions (cm) | 107 x 52 x 149 | |
| Weight (kg ) | 178 | |
| Low Purity Alarm (Optional) | When Oxygen purity ≥ 85 %, blue light is on. When Oxygen purity < 85%.red light is on. | |



## 6. LED Light Indicator

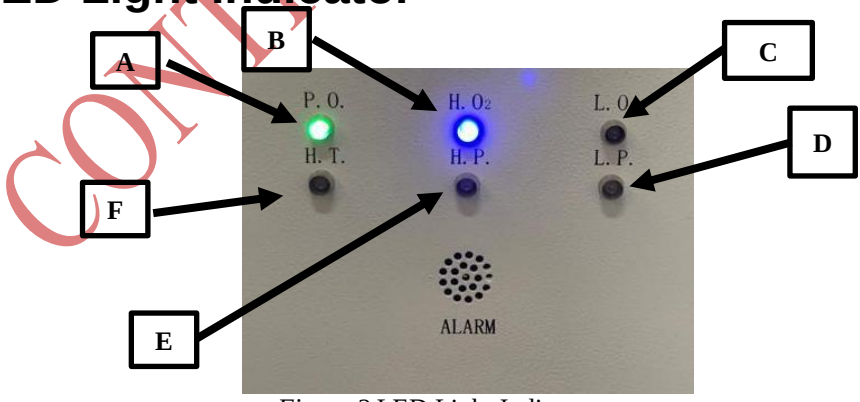



*Figure 2* LED Light Indicator

a) PO : Power On, Green Light is on.

b) H.O2 : High Oxygen (High Oxygen Concentration) ( < 85%, Red Light On)

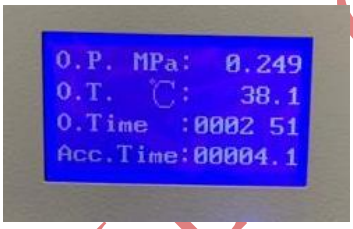
c) L.O2 : Low Oxygen (Low Oxygen Concentration) ( ≥ 85%, Blue Light On)

d) LP : Low Pressure (Low Pressure) (Pressure Oxygen ≤ 0.14 Mpa, Yellow light is on)

e) HP : High Pressure (Oxygen pressure ≥ 0.4 Mpa, Red light is on)

f) HT : High Temp. (Unit temperature is ≥ 80°C, Red light will be on)

## 7. LCD Indicator




a) OP : Oxygen Output Pressure (Normal Coverage : 0.14 Mpa ~ 0.4 Mpa)

b) OT : Unit Temperature (Normal Coverage : ≥ 80°C )

c) O.Time : Operating Time ( Hours : Minute)

d) Acc Time : Accumulative Operating Time (Average usage time) ( Hour)

## 8. Instructions for use

1. Connect the power, plug the power line plug that is connected to AC220V power, turn on the power (Circuit Breaker) switch and the Green (PO) indicator light will light up, LCD Screen, Red indicator light indicates Low Oxygen is on.


*Figure 4* The indicator lights up when connected to mains

2. After 3 minutes of operation. Flow Meter must be adjusted to the required flow, Adjust the oxygen output flow properly according to demand (counterclockwise means increase LPM Flow Meter, clockwise means Decrease LPM Flow Meter, MOC-G 20 LPM is adjusted to 20L/min.

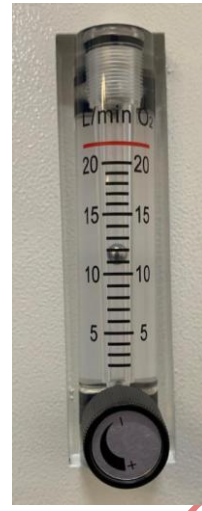



Figure 5 Oxygen flow (L/min)

3. Then adjusts the PR Valve (Outlet Pressure) can be adjusted to the pressure regulating valve. The range used is between (0.14 Mpa – 0.4 Mpa).


Figure 6 pressure knob (PR VALVE)

4. Wait for Unit Operation less more than 10 minutes.Oxygen purity is above 90%
5. .Oxygen purity indicator:Oxygen purity will rise to normal level within ten minutes of operation.When oxygen purity ≥ 85%,blue light is on (HO),when oxygen purity is <85%,red light is on (LO)
6. .Enter end of the hose to the outlet of the MOC-G oxygen unit, then apply oxygen.
7. When finished using, turn the switch to “OFF”, the axial fan, and the air dryer device will stop working after 60 Seconds. Please turn off the power (Circuit Breaker) switch
8. If there is intermittent use, please unplug the power plug.

**Unplug the power plug**

**Figure 7 Mains Plug**



## 9. Maintenance

1. When the power is off, clean the outside of the case with a soft damp towel, then wipe with a dry towel, once or twice a month.
2. Cleaning the main filter is an important step in the maintenance of cleaning the intake air filter, if Acc. Time : Accumulative Operating Time (Average usage time) shows 200 hours or if rarely used twice a month. Detailed steps: remove the intake air filter, clean with detergent and clean with clean water completely, get rid of extra water and dry naturally. Finally put it back after it dries.
   Damage: Do not operate the MOC-G unit without the filter installed, or when the filter is wet. Doing so may damage the MOC-G unit permanently.

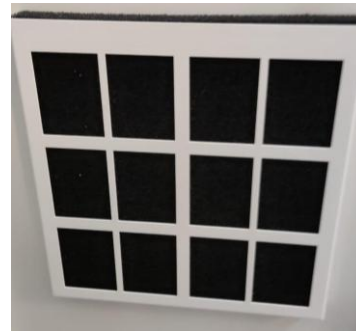


*Figure* 8 Main Filter

3. Clean the second filter (replace filter cotton) at Acc intervals. Time : Accumulative Operating Time (Average usage time) shows 900 hours or if rarely used twice a month, Open the side door, open the filter pipe body counterclockwise, remove the filter cloth, then clean with detergent, then clean with clean water completely , remove any extra water, and dry naturally, lastly plug it back in after it dries.

   Damage: Do not operate the MOC-G unit without the filter installed, or when the filter is wet. Doing so may damage the MOC-G unit permanently.

*Figure* 9 Second Filter

4. If the user wants circuit diagrams, lists of critical components, details of maintenance and repair, we will provide data on all the repairable parts we can supply.

## 10. Problem and solution

| No. | Problem | Cause | Solution |
|---|---|---|---|
| 1. | There is no operation after the power is connected | 1. There is no connection between the oxygen generator circuit and the mains<br>2. The compressor capacitor is faulty<br>3. Compressor is faulty | 1. Check that the switch, plug, power line are properly connected.<br>2. Replace the starting capacitor<br>3. Replace the Compressor |
| 2. | No oxygen out or small | 1. Fold outflow inside the hose, no smooth intake<br>2. Clogged filter, no smooth intake | 1. Connect hose again<br>2. Clean filter |
| 3. | No exhaust sound | 1. Air controller can't work<br>2. Electrical control board can't work | 1. Replace air control valve<br>2. Replace electrical control board |
| 4. | Muffler is too noisy | 1. Exhaust filter connection dropped<br>2. Exhaust filter broken | 1. Connect good connection<br>2. Have the exhaust replaced |

## 11. Conditions for transport and storage

| | |
|---|---|
| Environmental Temperature Scale | : - 40 ℃ - 55 ℃ |
| Comparative humidity scale | : ≤ 95% |
| Air pressure scale | : 700 – 1060 hpa |



*Diagram 1* Flow Work Unit MOC-G

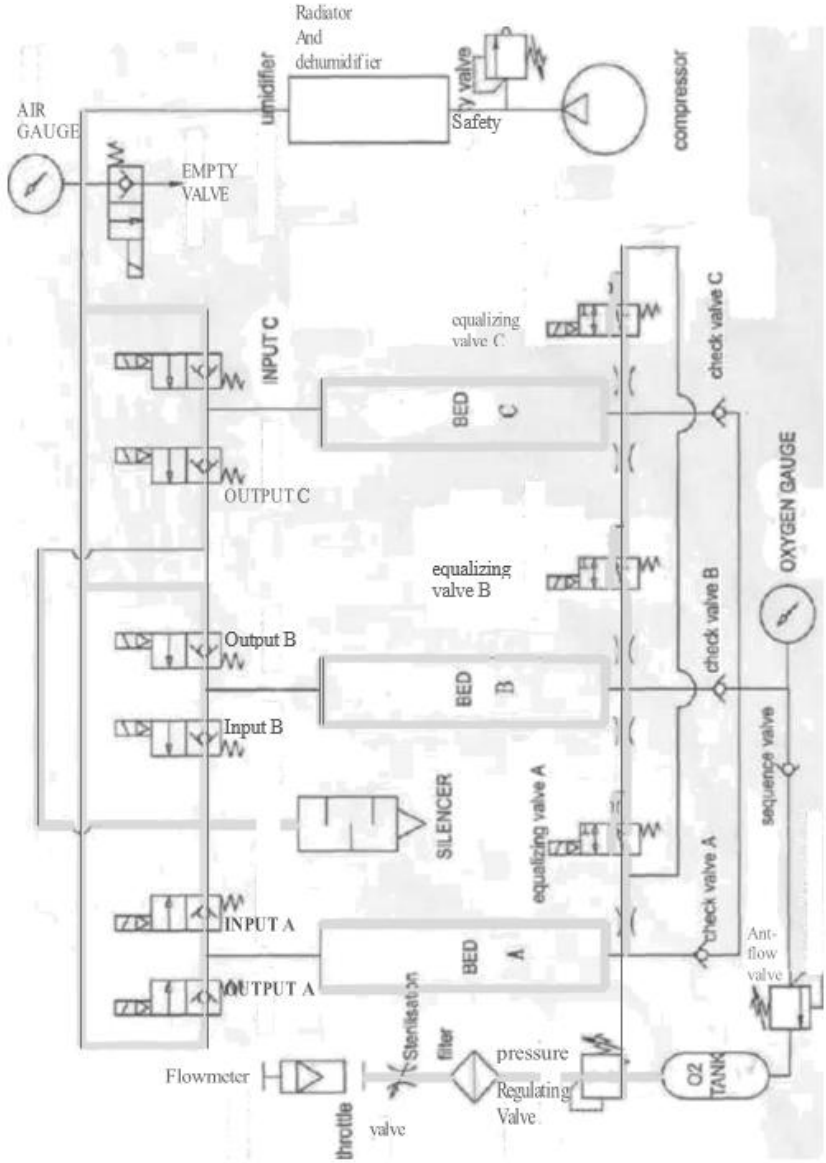



*Diagram* 1 Flow Work Unit MOC-G

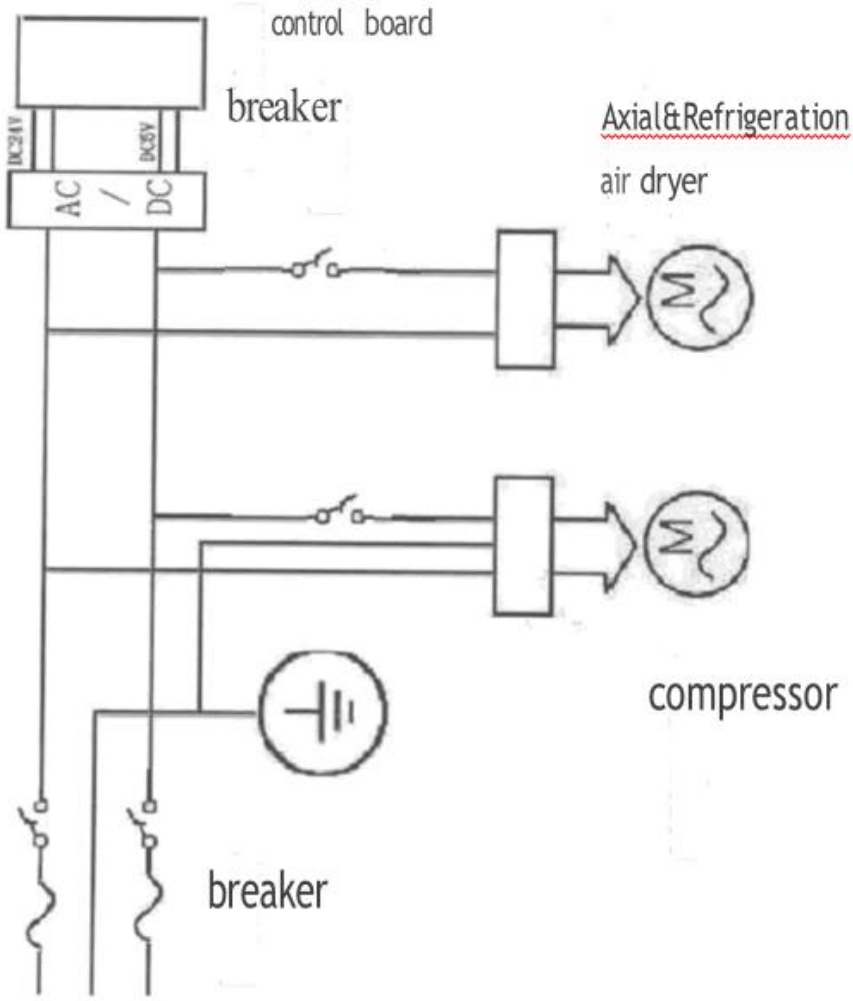



*Diagram 2* Oxygen generator connection

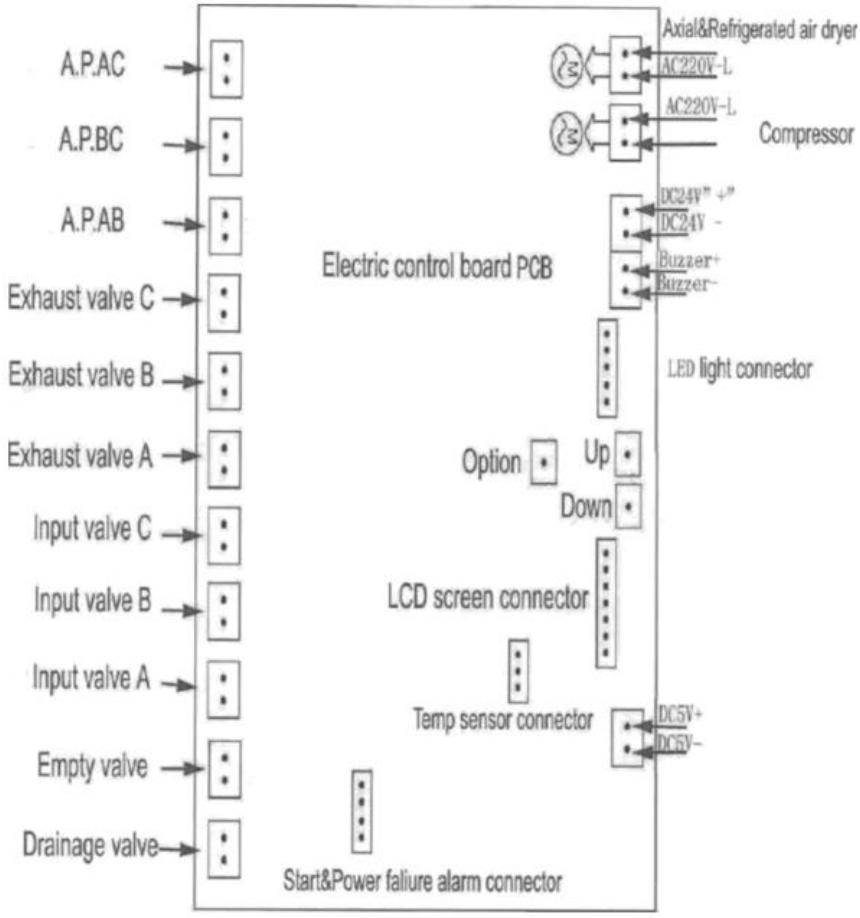



*Diagram 3* Ogygen generator control board connection

# MEDICAL OXYGEN CONCENTRATOR

# MOC-G



## MANUAL BOOK

Elitech® TECHNOVISION